PATENT ABSTRACTS OF JAPAN

(11) Publication number:

2000-106510

(43)Date of publication of application: 11.04.2000

(51)Int.CI.

H03F 3/60 H₀3F 3/189

(21)Application number: 10-273668

(71)Applicant: MITSUBISHI ELECTRIC CORP

(22)Date of filing:

28.09.1998

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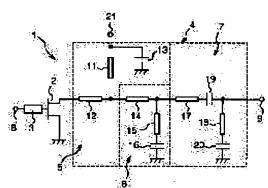
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(54) HIGH FREQUENCY POWER AMPLIFIER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the high frequency power amplifier with an improved efficiency by decreasing its power loss. SOLUTION: Each length of a drain bias line 11 and signal lines 12, 14, 15 is selected so that an output matching circuit 4 acts like an open load with respect to a second harmonic and like a short-circuit load with respect to a third harmonic, for example, a phase of an S11 of an S parameter with respect to the second harmonic ranges between -80°C and 140°C and a phase of an S11 of an S parameter with respect to the third harmonic ranges between 160° and 220°. Furthermore, the length of each line is adjusted so that a phase of an S22 of an S parameter with respect to the fundamental wave in an input matching circuit 3 is shifted by a phase of +5° to -75° from a point at which a maximum gain is obtained.



LEGAL STATUS

[Date of request for examination]

18.11.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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